

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/002305

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D305/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, BEILSTEIN Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 902 886 A (SCHICK HANS ET AL) 11 May 1999 (1999-05-11) the whole document example 3	1-24, 34
A	WO 02/32850 A (MULLINS JOHN JASON GENTRY) 25 April 2002 (2002-04-25) the whole document ----- -/--	1-24

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

24 January 2005

Date of mailing of the international search report

10. 02. 2005

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	ISHIHARA, TAKASHI; ICHIHARA, KAZUYOSHI, YAMANAKA, HIROKI: "Highly Selective Aldol Reaction of Metal Enolates of alpha-Fluoropropanethioates with Aldehydes Affording erythro-alpha-Fluoro-alpha-methyl-beta-hyd roxy Alkanethionates" TETRAHEDRON LETTERS, vol. 36, no. 45, 1995, pages 8267-8270, XP002300391 page 8268, first full paragraph paragraph '001 !	1-24
X	US 5 412 110 A (WAGNER MARION ET AL) 2 May 1995 (1995-05-02) the whole document column 6, line 54 - column 7, line 47 column 7, formula VI	25-34
X	US 4 931 463 A (BARBIER PIERRE ET AL) 5 June 1990 (1990-06-05) the whole document column 3, line 69 - column 4, line 37 column 28, line 30 - column 28, line 55 Column 19, Example 1, lines 54 and 55	25-34
X	US 4 983 746 A (BARBIER PIERRE ET AL) 8 January 1991 (1991-01-08) Column 6, formula III' Example 2c, lines 24 and 25 the whole document claim 1 page 1, column 1, line 31 - column 2, line 23 column 5, line 50 - column 6, line 36 examples 2A,2B,2C	25-34
X	EP 1 127 886 A (HOFFMANN LA ROCHE) 29 August 2001 (2001-08-29) the whole document	25-33
X	US 4 202 824 A (AOYAGI, TAKAAKI ET AL) 13 May 1980 (1980-05-13) Column 7, Formula III	34

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-24

Subject matter related to the preparation of compounds of formula (I)

2. claims: 25-33

Subject matter related to the preparation of compounds of formula V

3. claim: Claim 34

Subject matter related to the products of claim 34

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2004/002305

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